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IN THE CLAIMS:

1. (currently amended) A laser monitoring system, comprising:

a spectrometer ~~meter adapted to measure~~ providing an unknown bandwidth of a spectrum of light emitted from the laser, comprising:

an optical bandwidth measuring unit ~~adapted to provide~~ providing as an output a measured parameter, which is indicative of a parameter of the unknown bandwidth of the spectrum being measured;

a reported parameter computing unit ~~adapted to compute~~ providing a reported parameter of the unknown bandwidth of the spectrum being measured according to the formula:

$$\text{Reported Parameter ("RP")} = A * (\text{Measured Parameter ("MP")}) + C,$$

wherein the RP and MP are a different type of parameter and the values of A and C are determined based upon calibration of the optical bandwidth measuring unit MP response for light of known value of RP.

2. (original) The apparatus of claim 1 further comprising:

the optical bandwidth measuring unit comprises an interferometric or dispersive optical instrument.

3. (original) The apparatus of claim 1 further comprising:

the optical bandwidth measuring unit comprises an etalon.

4. (original) The apparatus of claim 2 further comprising:

the optical bandwidth measuring unit comprises an etalon.

5. (original) The apparatus of claim 1 further comprising:

RP is at FWXM and MP is at FWX'M, wherein $X \neq X'$.

6. (original) The apparatus of claim 2 further comprising:

RP is at FWXM and MP is at FWX'M, wherein $X \neq X'$.